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GIFFORD, KRASS, GROH, SPRINKLE & CITKOWSKI, P.C			HUNNINGS, TRAVIS R	
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			2632	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		10/749,494	AL-SHEIKH, ZAHER	
	Office Action Summary	Examiner	Art Unit	<u> </u>
		Travis R. Hunnings	2632	
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address	
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute the provided by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be solid apply and will expire SIX (6) MONTHS from the application to become ABANDON	DN. limely filed m the mailing date of this communication IED (35 U.S.C. § 133).	
Status				
2a)⊠	Responsive to communication(s) filed on <u>21 N</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, p		is
Dispositi	on of Claims			٠
5)□ 6)⊠ 7)□ 8)□	Claim(s) 1-8,11 and 13-36 is/are pending in the 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-8,11 and 13-36 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.		
Applicati	on Papers			
10)⊠	The specification is objected to by the Examine The drawing(s) filed on 31 December 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine 1.	tre: a) \square accepted or b) \square objed drawing(s) be held in abeyance. Solution is required if the drawing(s) is considerable.	ee 37 CFR 1.85(a). Objected to. See 37 CFR 1.121	(d).
Priority (ınder 35 U.S.C. § 119			
a)(Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applica rity documents have been recei u (PCT Rule 17.2(a)).	ation No ved in this National Stage	
2) Notice 3) Inform	t(s) le of References Cited (PTO-892) le of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:	ry (PTO-413) Date I Patent Application (PTO-152)	

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1-6, 8, 11, 13, 19-25, 28, 32, 33, 35 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCarthy et al. (McCarthy; US Patent 6,768,420).

Regarding claim 1, McCarthy discloses *Vehicle Compartment Occupancy*Detection System that has the following claimed limitations:

The claimed mammalian body detector sensing a confined space is met by the electric field sensor for detecting if a person is located inside the vehicle (column 2, lines 14-18);

The claimed thermocouple measuring a temperature within the confined space relative to a thermal threshold is met by the temperature being measured by a thermocouple having a threshold of dangerous temperature (column 2, lines 33-58 and column 7, lines 21-28);

The claimed video camera having a fisheye or other wide angle lens is met by the additional sensors including a video camera (column 8, lines 61-67). Any lens would have been chosen for the particular task of capturing an image inside the vehicle, including a fisheye or wide angle lens;

The claimed controller receiving an output from said thermocouple corresponding to the temperature and a signal from said motion detector corresponding to an occupant within the confined space is met by the vehicle body computer that the sensor inputs are fed into so that it can determine when the temperature is at a dangerous level and there is someone inside the vehicle (column 7, lines 17-52);

The claimed alarm subsystem triggered by said controller communicating to a remote location that the temperature in the space is beyond the thermal threshold and an occupant is within the space subsequent to a condition precedent along with a video image generated by said video camera is met by the device communicating to a remote receiver when a person is detected in the space and the temperature is above the threshold thereby indicating a dangerous situation and sending an image of the vehicle interior to an OnStar operator or the like (abstract, column 2, lines 5-10 and 33-58 and column 7, lines 30-52).

McCarthy does not explicitly disclose the claimed reserve power unit enabling said controller to function upon loss of routing power however examiner takes official notice that it is well known in the art for any kind of electrical device to have a backup or reserve power system to take over powering the device when the main power system fails.

Regarding claim 2, the claimed confined space being selected from the group consisting of a building structure, a vehicle passenger compartment and a vehicle trunk

is met by the space being detected being a vehicle compartment or trunk (column 1, lines 64-67).

Regarding claims 3 and 4, the claimed alarm subsystem being a wireless transmitter is met by the device communicating through a cellular phone that inherently has a wireless transmitter (column 7, lines 30-52).

Regarding claim 5, the claimed alarm subsystem comprising an auditory alarm indicating that the temperature in the space exceeds a thermal threshold and the occupant is within the space is met by the device beeping the vehicle's horn when it detects a dangerous condition indicating a high temperature and a person occupying the space (column 7, lines 30-52).

Regarding claim 6, the claimed condition precedent is the temperature within a vehicle confined space being above the threshold for a predetermined amount of time with the occupant therein is met by the system monitoring the temperature and indicating a dangerous condition if the temperature has been above the threshold level for a certain time period (column 8, lines 27-60).

Regarding claim 8, the claimed alarm subsystem having a burglar detection mode that communicates an emergency signal to a remote location upon detecting the occupant within the space and independent of the temperature being beyond the

thermal threshold, the emergency signal comprising a video image collected by said video camera is met by the intrusion sensor being used to detect break-in attempts (column 9, lines 41-59) and also one of ordinary skill in the art would have realized that the disclosed function of sending an image of the interior of the vehicle to an OnStar operator or the like (column 7, lines 30-52) would be applicable not only to dangerous temperature conditions but to break-in conditions as well.

Regarding claim 11, it would have been obvious to start the video camera when the temperature exceeds the threshold and an occupant is detected in order to capture the images to be sent to the remote location (column 7, lines 30-52).

Regarding claim 13, the claimed mammalian body detector comprising a type of sensor selected from the group consisting of: infrared, vibration and carbon dioxide is met by the sensor being used to detect compartment occupancy being a carbon dioxide detector (column 8, lines 61-67).

Regarding claim 19, McCarthy discloses the following claimed limitations:

The claimed mammalian body detector sensing a vehicle compartment is met by the electric field sensor for detecting if a person is located inside the vehicle (column 2, lines 14-18);

The claimed thermocouple measuring a temperature within the vehicle relative to a thermal threshold is met by the temperature being measured by a thermocouple

having a threshold of dangerous temperature (column 2, lines 33-58 and column 7, lines 21-28);

The claimed video camera having a fisheye or other wide angle lens is met by the additional sensors including a video camera (column 8, lines 61-67). Any lens would have been chosen for the particular task of capturing an image inside the vehicle, including a fisheye or wide angle lens;

The claimed controller receiving an output from said thermocouple corresponding to the temperature and a signal from said motion detector corresponding to an occupant within the confined space is met by the vehicle body computer that the sensor inputs are fed into so that it can determine when the temperature is at a dangerous level and there is someone inside the vehicle (column 7, lines 17-52);

The claimed switch automatically opening a vehicle portal in response to the temperature within the vehicle compartment exceeding the thermal threshold and said detector sensing an occupant within the vehicle compartment is met by the device opening/rolling down the windows of the vehicle when a dangerous condition is detected (column 7, lines 30-52);

The claimed alarm subsystem triggered by said controller to automatically communicate to a remote location that the temperature in the vehicle compartment is beyond the thermal threshold and the occupant is within the vehicle compartment is met by the device communicating to a remote receiver when a person is detected in the space and the temperature is above the threshold thereby indicating a dangerous situation (abstract, column 2, lines 5-10 and 33-58 and column 7, lines 30-52).

McCarthy does not explicitly disclose the claimed reserve power unit enabling said controller to function upon loss of routing power however examiner takes official notice that it is well known in the art for any kind of electrical device to have a backup or reserve power system to take over powering the device when the main power system fails.

Regarding claim 20, the claimed alarm subsystem comprising a wireless transmitter is met by McCarthy using a cellular phone to transmit and receive information regarding the vehicle status (column 7, lines 30-52).

Regarding claim 21, it would have been obvious to activate both the vehicle horn and open/roll down the windows of the vehicle when a dangerous condition is detected to both alert people nearby that there is a problem and to provide some fresh air and temperature relief to those inside the vehicle (column 7, lines 30-52).

Regarding claim 22, the claimed system further comprising a video camera is met by McCarthy having a video camera (column 8, lines 61-67).

Regarding claim 23, the claim is interpreted and rejected as claim 11 stated above.

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Regarding claim 24, the claimed system further comprising a video camera activated to collect an image as part of the emergency signal is met by the video camera (column 8, lines 61-67) and sending an image of the compartment to an operator (column 7, lines 30-52).

Regarding claim 25, the claimed system wherein the vehicle portal is selected from the group consisting of a window, sunroof, and trunk is met by the device of McCarthy opening/rolling down the windows of the vehicle (column 7, lines 30-52).

Regarding claim 28, the claimed cellular communication transmitter transmits a signal suitable for triangulation to locate the vehicle compartment is met by the device transmitting a cellular signal that is inherently able to be triangulated (column 7, lines 30-52).

Regarding claim 32, McCarthy discloses the following claimed limitations:

The claimed process of disposing a mammalian body motion detector in the space is met by the electric field sensor being placed in a vehicle compartment for detecting the occupancy of the space (column 2, lines 14-18). This sensor would also obviously detect motion because there would have to be a presence whenever there is motion therefore every time there is motion, there is a presence that is being detected;

The claimed process of sensing a temperature within the space is met by the thermocouple sensing the temperature within the vehicle (column 2, lines 33-58 and column 7, lines 17-21);

The claimed process of comparing the temperature with a pre-selected threshold temperature is met by the temperature being compared to a threshold (column 7, lines 21-28);

The claimed process of activating a wireless transmitter alarm subsystem in response to a condition precedent of a failure to reset an auditory alarm within a preselected amount of time is met by the device communicating the warning of a dangerous condition to a remote receiver after a time period (abstract, column 2, lines 5-10 and 33-58, column 7, lines 30-52 and column 8, lines 27-60).

Regarding claim 33, the claimed process further comprising the step of opening a portal in the space when the occupant is detected within the space and the temperature therein is beyond the threshold for the pre-selected amount of time is met by the device opening/rolling down the windows of the vehicle when a dangerous condition has existed for a specific amount of time (column 7, lines 30-52 and column 8, lines 27-60).

Regarding claim 35, the claim is interpreted and rejected as claim 28 stated above.

Regarding claim 36, the claimed process further comprising the step of disposing a video camera in the space and transmitting a video image by way of said wireless transmitter is met by the video camera taking pictures that are sent wirelessly to a remote location (column 8, lines 61-67 and column 7, lines 30-52).

3. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over McCarthy in view of Ford (US Patent 6,756,896).

Regarding claim 7, McCarthy discloses all of the claimed limitations except for the claimed condition precedent is failure by the occupant to reset the auditory alarm within a pre-selected amount of time. Ford discloses *Distributed Residential Alarm System And Method Therefor* that teaches originating a localized alarm at a location in response to an emergency condition being detected and then if after a certain predetermined period of time the localized alarm is not reset, the system alerts other remote units that there is an alarm condition at the localized location (abstract, figure 4). Modifying the alert system of McCarthy to provide a localized warning, such as beeping the car horn, and if the alarm has not been stopped within a pre-determined period of time then alerting the remote user would help to eliminate some false alarms and save the battery of the remote receiver. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device disclosed by McCarthy in view of Ford to have the condition precedent be failure to reset the auditory alarm within a pre-selected period of time.

4. Claims 14, 16, 29 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCarthy in view of Wilkinson (US Patent 5,892,447).

Regarding claim 14, McCarthy discloses the remote receiver being a user's cellular telephone (column 7, lines 30-52) however McCarthy does not specifically disclose the receiver comprising:

A housing;

A wireless antennae for receiving an emergency signal from said alarm subsystem;

A display for providing the emergency signal in human recognizable form;

A digital memory for storing images;

A data transmission portal; and

A receiver battery power supply.

Wilkinson discloses *Portable Cellular Alert System* that teaches a cellular phone with a housing as seen in figure 10; a wireless antennae for receiving both emergency signals and cellular communication signals as seen by element 405 in figure 2 (column 2, lines 11-31); a display for providing the user with a display of the date and time the signal was received (column 2, lines 65-67); a memory for storing digital data as seen by element 407 in figure 2 and it would have been obvious to one of ordinary skill in the art to store anything in the memory including images; a cellular telephone to transmit to a remote location as seen by element 415 in figure 2; and a battery to provide power to

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the electronics of the unit (column 2, lines 55-57). Modifying the cellular receiver of McCarthy to have the specific details as taught by Wilkinson would provide the user with a device that has all of the needed components to allow the receiver to work within the system. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device disclosed by McCarthy according to the teachings of Wilkinson to have a receiver with the above specifications.

Regarding claim 16, it would have been obvious that the housing of the cellular phone contains a bar code because every cellular phone is provided with a manufacturer's bar code upon assembly in order to facilitate tracking and identification of the cellular phones.

Regarding claim 29, the claimed emergency signal from an alarm subsystem triggered by said controller communicating to a remote location that the temperature in the space is beyond the thermal threshold and an occupant is within the space subsequent to a condition precedent along with a video image generated by said video camera is met by the device communicating to a remote receiver when a person is detected in the space and the temperature is above the threshold thereby indicating a dangerous situation and sending an image of the vehicle interior to an OnStar operator or the like (abstract, column 2, lines 5-10 and 33-58 and column 7, lines 30-52).

McCarthy discloses the remote receiver being a user's cellular telephone (column 7, lines 30-52) however McCarthy does not specifically disclose the receiver comprising:

A housing;

A wireless antennae for receiving an emergency signal from said alarm subsystem;

A display for providing the emergency signal in human recognizable form;

A digital memory for storing images;

A data transmission portal; and

A receiver battery power supply.

Wilkinson discloses *Portable Cellular Alert System* that teaches a cellular phone with a housing as seen in figure 10; a wireless antennae for receiving both emergency signals and cellular communication signals as seen by element 405 in figure 2 (column 2, lines 11-31); a display for providing the user with a display of the date and time the signal was received (column 2, lines 65-67); a memory for storing digital data as seen by element 407 in figure 2 and it would have been obvious to one of ordinary skill in the art to store anything in the memory including images; a cellular telephone to transmit to a remote location as seen by element 415 in figure 2; and a battery to provide power to the electronics of the unit (column 2, lines 55-57). Modifying the cellular receiver of McCarthy to have the specific details as taught by Wilkinson would provide the user with a device that has all of the needed components to allow the receiver to work within the system. Therefore it would have been obvious to one of ordinary skill in the art at the

time of the invention to modify the device disclosed by McCarthy according to the teachings of Wilkinson to have a receiver with the above specifications.

Regarding claim 31, the claim is interpreted and rejected as claim 16 stated above.

5. Claims 14, 15, 29 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCarthy in view of Brinkmeyer et al. (Brinkmeyer; US Patent 5,940,007).

Regarding claim 14, McCarthy discloses a key FOB that receives indication from the device that a dangerous condition exists at the vehicle, however McCarthy does not specifically disclose the specific makeup of the key FOB as claimed in claim 14.

Brinkmeyer discloses Remote Control System For Motor Vehicle Related Devices that teaches the specific makeup of the key FOB having a housing as seen in figure 2, a wireless antennae for receiving an emergency signal from a vehicle as seen in figure 1 (column 5, lines 17-40), a display for providing user readable information as seen in figure 2, it would be obvious for the device to include memory to store vehicle information and icon images associated with the display, a data transmission device for transmitting information to the vehicle (column 5, lines 17-40) and it would have been obvious to include a battery to provide power to all electronic components of the key

FOB. Modifying the key FOB of McCarthy according to Brinkmeyer would give the user an existing device that is known to work and be able to communicate with a vehicle system for sending and receiving information regarding the vehicle. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device disclosed by McCarthy according to the teachings of Brinkmeyer to have a key FOB according to the above specifications.

Regarding claim 15, McCarthy and Brinkmeyer disclose all of the claimed limitations. The claimed receiver housing having an aperture engaging a key ring is met by the key FOB as shown in figure 2 and it is well known that key FOBs are built to engage key rings.

Regarding claim 29, the claimed emergency signal from an alarm subsystem triggered by said controller communicating to a remote location that the temperature in the space is beyond the thermal threshold and an occupant is within the space subsequent to a condition precedent along with a video image generated by said video camera is met by the device communicating to a remote receiver when a person is detected in the space and the temperature is above the threshold thereby indicating a dangerous situation and sending an image of the vehicle interior to an OnStar operator or the like (abstract, column 2, lines 5-10 and 33-58 and column 7, lines 30-52).

McCarthy discloses a key FOB that receives indication from the device that a dangerous condition exists at the vehicle, however McCarthy does not specifically

disclose the specific makeup of the key FOB as claimed in claim 14. Brinkmeyer discloses Remote Control System For Motor Vehicle Related Devices that teaches the specific makeup of the key FOB having a housing as seen in figure 2, a wireless antennae for receiving an emergency signal from a vehicle as seen in figure 1 (column 5, lines 17-40), a display for providing user readable information as seen in figure 2, it would be obvious for the device to include memory to store vehicle information and icon images associated with the display, a data transmission device for transmitting information to the vehicle (column 5, lines 17-40) and it would have been obvious to include a battery to provide power to all electronic components of the key FOB. Modifying the key FOB of McCarthy according to Brinkmeyer would give the user an existing device that is known to work and be able to communicate with a vehicle system for sending and receiving information regarding the vehicle. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device disclosed by McCarthy according to the teachings of Brinkmeyer to have a key FOB according to the above specifications.

Regarding claim 30, the claim is interpreted and rejected as claim 15 stated above.

6. Claims 17, 26, 27 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCarthy in view of Barnas et al. (Barnas; US Patent 6,642,838). Application/Control Number: 10/749,494 Page 17

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Regarding claims 17 and 34, McCarthy discloses all of the claimed limitations except for the claimed system further comprising geographic location information communicated to the remote location by said alarm subsystem. Barnas discloses Safety System For Automobiles that teaches using a GPS (Global Positioning System) to send location information of the vehicle to a remote location when a dangerous condition is detected at the vehicle (abstract and column 4, lines 37-49). Providing location information in the form of GPS information to a remote receiver would allow the user to quickly find the vehicle when a dangerous condition is detected. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device disclosed by McCarthy according to the teachings of Barnas to transmit location information in the form of GPS information to a remote location when a dangerous condition is detected.

Regarding claims 26 and 27, the claims are interpreted and rejected as claim 17 stated above.

7. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over McCarthy in view of Wilkinson and further in view of Barnas.

Regarding claim 18, the claim is interpreted and rejected as McCarthy and Wilkinson in view of Barnas using the same reasoning as laid out in claim 17 stated above.

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Response to Arguments

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8. Applicant's arguments with respect to claims 1, 19, 29 and 32 have been

considered but are moot in view of the new ground(s) of rejection.

9. Applicant's arguments filed 21 November 2005 have been fully considered but

they are not persuasive. Applicant argues the following:

Argument A: with regard to independent claim 14, applicant argues that storing

images at the receiver should be considered to impart patentable weight.

Responses:

Regarding argument A, examiner stands behind his assertion that it would have

been obvious to one of ordinary skill in the art that a cellular telephone will have

memory that can be used to store digital images, especially with the increase in the use

of cellular camera phones.

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Travis R. Hunnings whose telephone number is (571) 272-3118. The examiner can normally be reached on 8:00 am - 5:00 pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel J. Wu can be reached on (571) 272-2964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TRH

Thomas J. Mullen, Jr. Primary Examiner Page 20